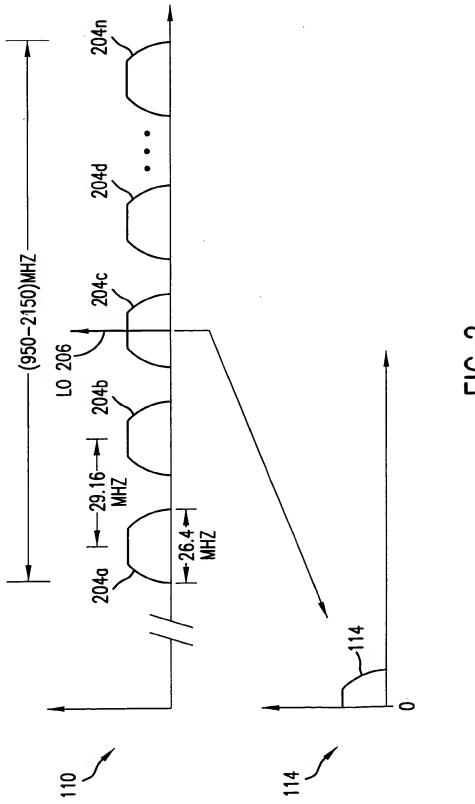


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Dkt No. 1875.1210003; Group Unit: 2643
Inventor: James Y.C. Chang
Tel. No.: 202-371-2600
For: Apparatus for Reducing Flicker Noise in a Mixer
Circuit





Replacement Sheet Sheet 3 of 25 Appl. No. 09/995,690; Filed: Nov 29, 2001 Dkt No. 1875.1210003; Group Unit: 2643 Inventor: James Y.C. Chang Tel. No.: 202-371-2600 JUN 1 6 2006 For: Apparatus for Reducing Flicker Noise in a Mixer Circuit 3/25 BASEBAND XTAL OSC 16MHz 326 ~322 -323 品 324 -318b -318<u>c</u> -318d 3440 3450 3420 FILTER 3480 -333b 329~ 388 ≸ RF INPUT 950MHz TO 2150MHz 354 12 C

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	AMP 356a	AMP 356b	AMP 356c	AMP 356d	AMP 356e	AMP 356f	AMP 356g	AMP 356h	AMPS 356i	AMPS 356j
VC0 318a	NO	0FF	OFF	0FF	NO	OFF	0FF	NO	NO	0FF
VC0 318b	JJ0	NO	0FF	0FF	NO	0FF	0FF	NO	NO	OFF
VC0 318c	OFF .	JJ0	NO	JJO	0FF	NO	NO	0FF	OFF.	NO
VC0 318d	OFF	OFF	OFF.	NO	JJ0	NO	NO	OFF.	OFF	NO



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For: Apparatus for Reducing Flicker Noise in a Mixer Circuit



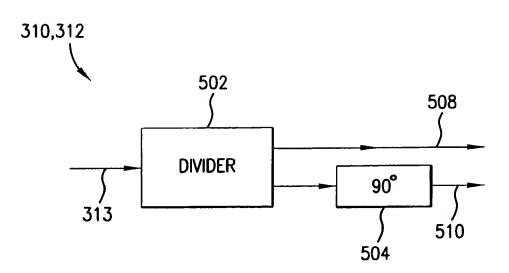


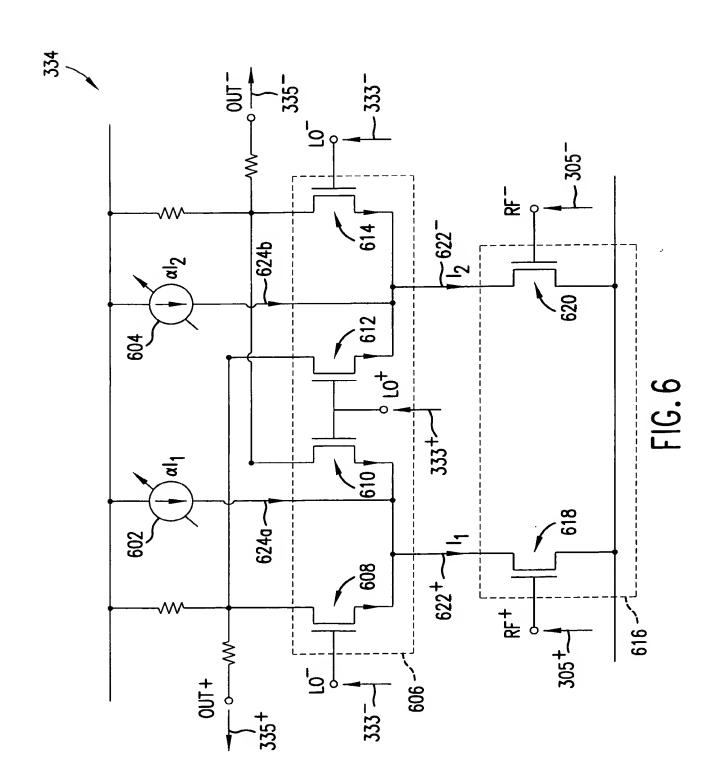
FIG. 5A

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Dixt No. 1875.1210003; Group Unit: 2643
Inventor: James Y.C. Chang
Tel. No.: 202-371-2600
For: Apparatus for Reducing Flicker Noise in a Mixer
Circuit JUN 1 6 2008 6/25 334b 332 $\dashv \vdash$ MIXER (DUMMY STAGE) AMPLITUDE DETECTOR AMPLITUDE DETECTOR 332 3300 356 356i **B**2 <u>8</u> 0° 180° 180° 06 313b 356e 356 c,d 356 a,b **B**2 딤 B2: 1550MHz-2150MHz B1: 950MHz-1550MHz **VC04 VC02** 318c

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Circuit



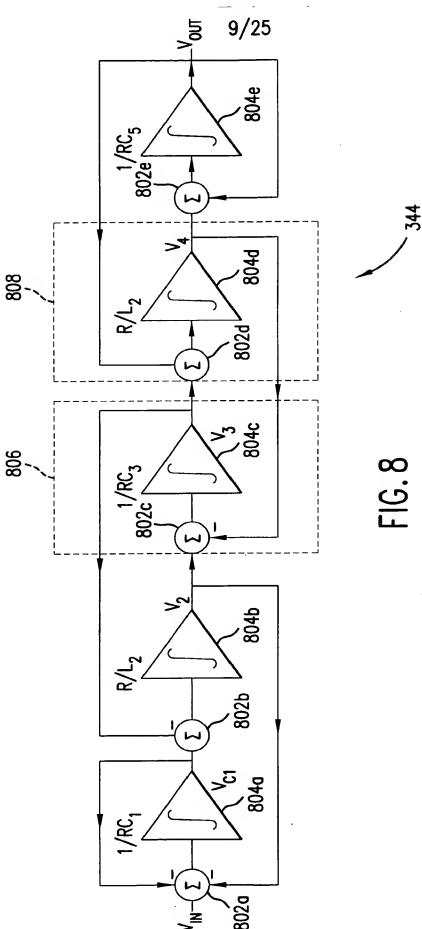




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Dkt No. 1875.1210003; Group Unit: 2643
Inventor: James Y.C. Chang
Tel. No.: 202-371-2600
For: Apparatus for Reducing Flicker Noise in a Mixer
Circuit 10N J & 5000 BIENT & THEFE 8/25 FIG. 7 -- 614 624b -|I1 703 624a RF+ 718 702 -809 OUT+

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Circuit



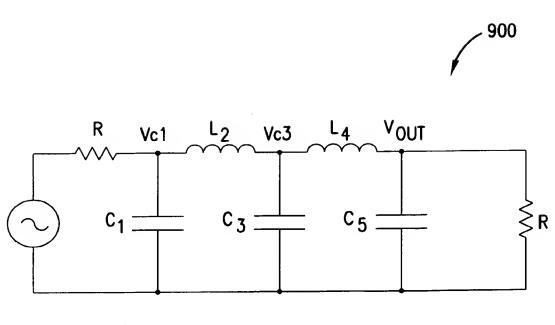


FIG. 9

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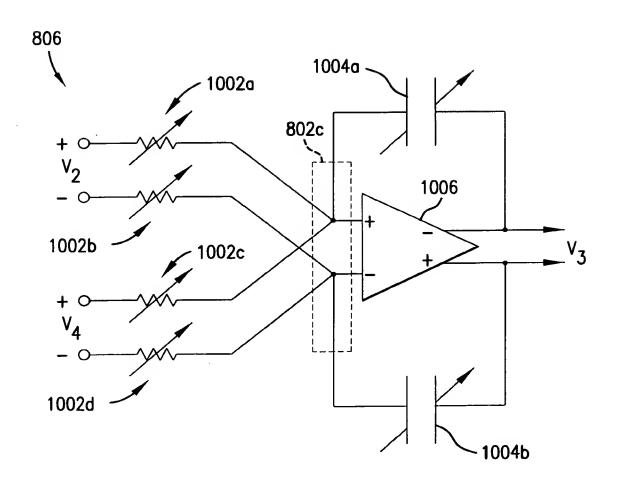
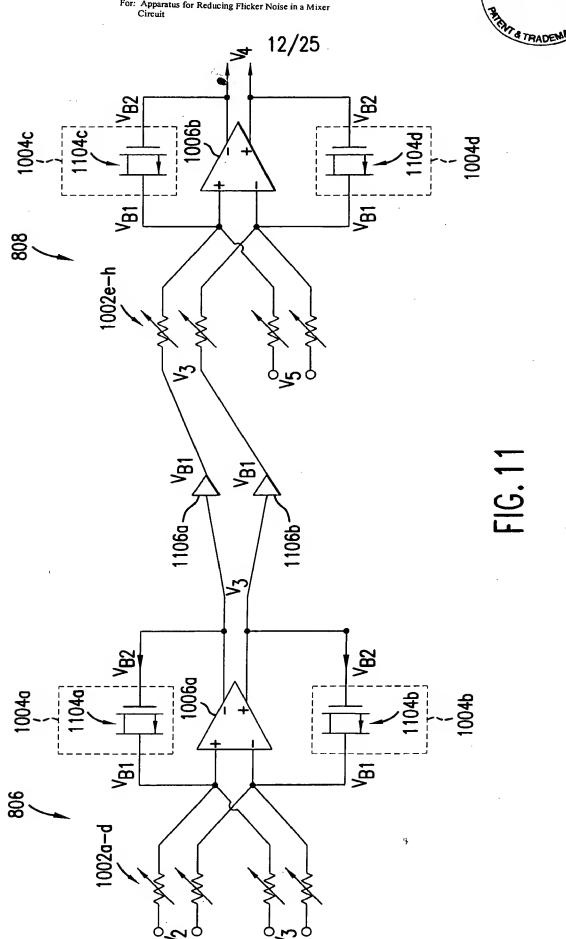


FIG. 10

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Inventor: James Y.C. Chang
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Tel. No.: 202-371-2600
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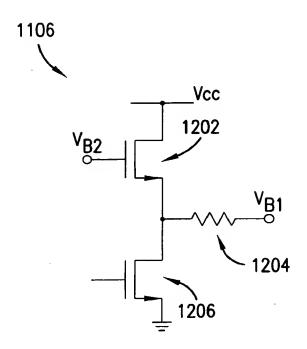


FIG. 12

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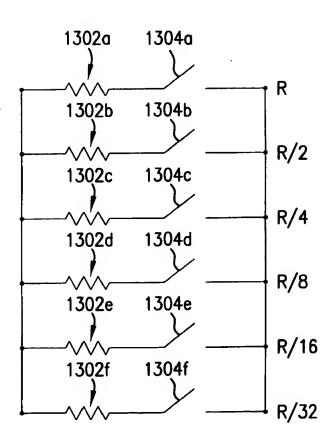
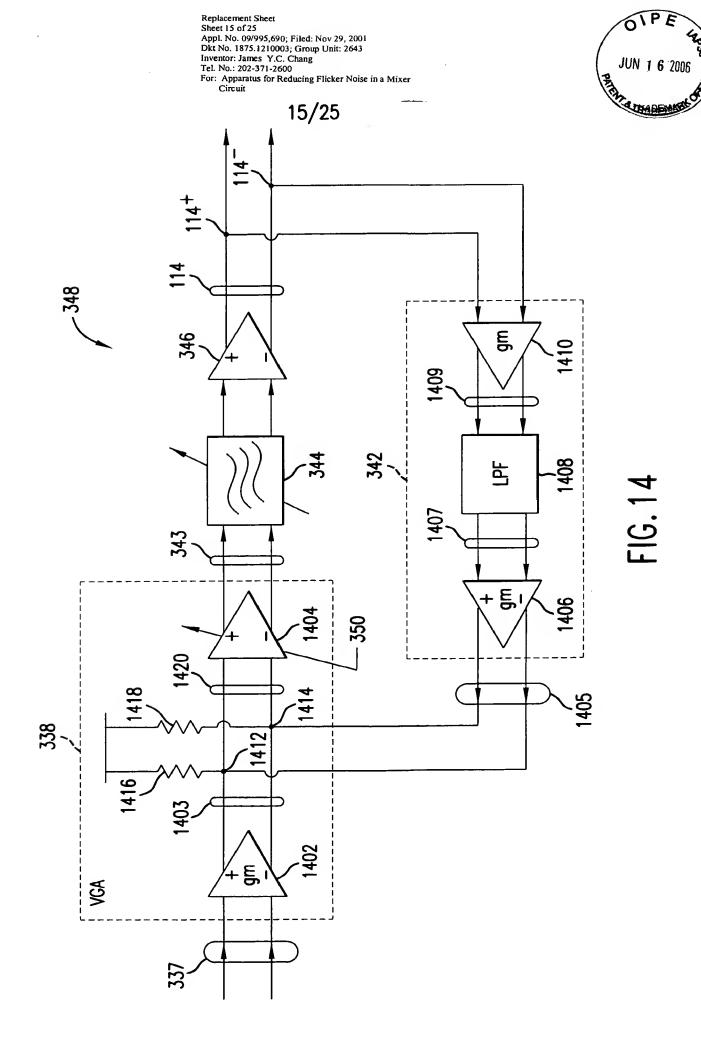


FIG. 13



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For: Apparatus for Reducing Flicker Noise in a Mixer
Circuit



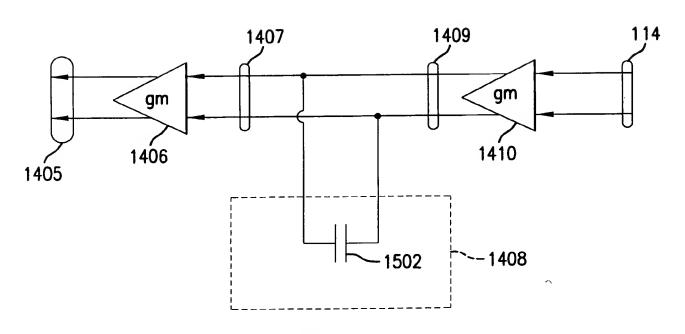


FIG. 15

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Inventor: James Y.C. Chang Tel. No.: 202-371-2600

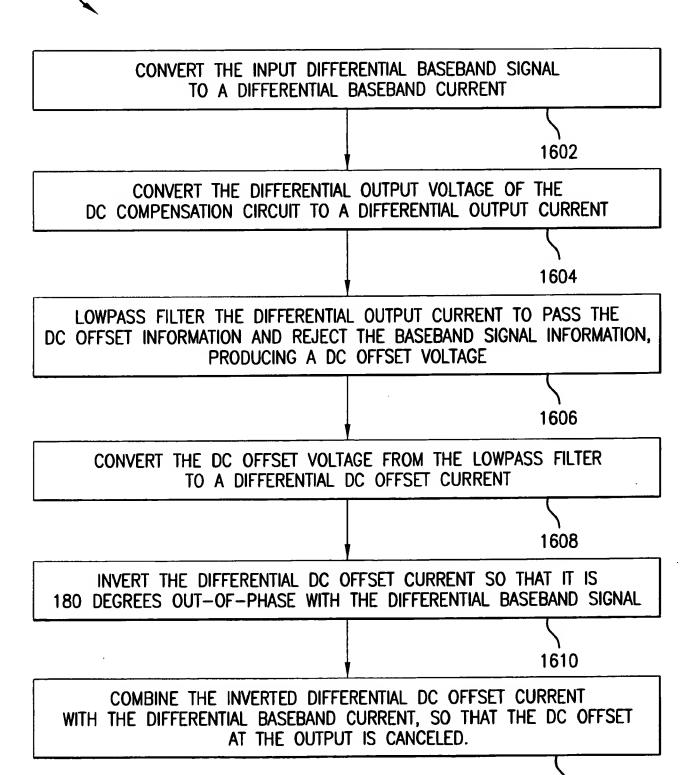
For: Apparatus for Reducing Flicker Noise in a Mixer

Circuit

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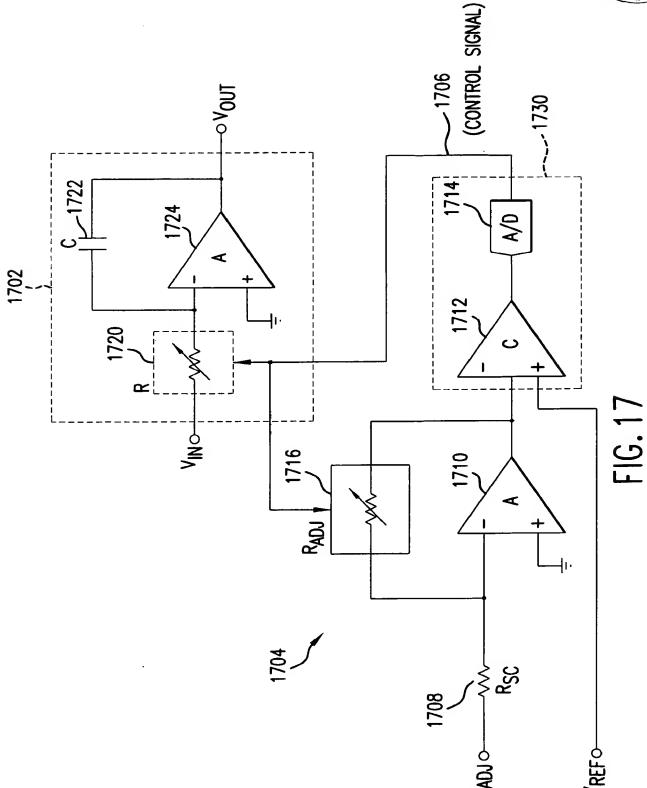
1600



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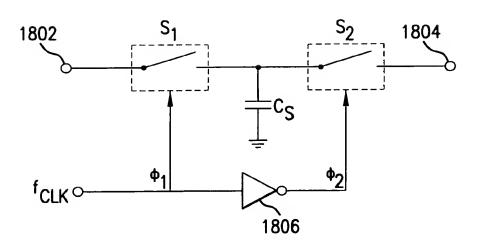
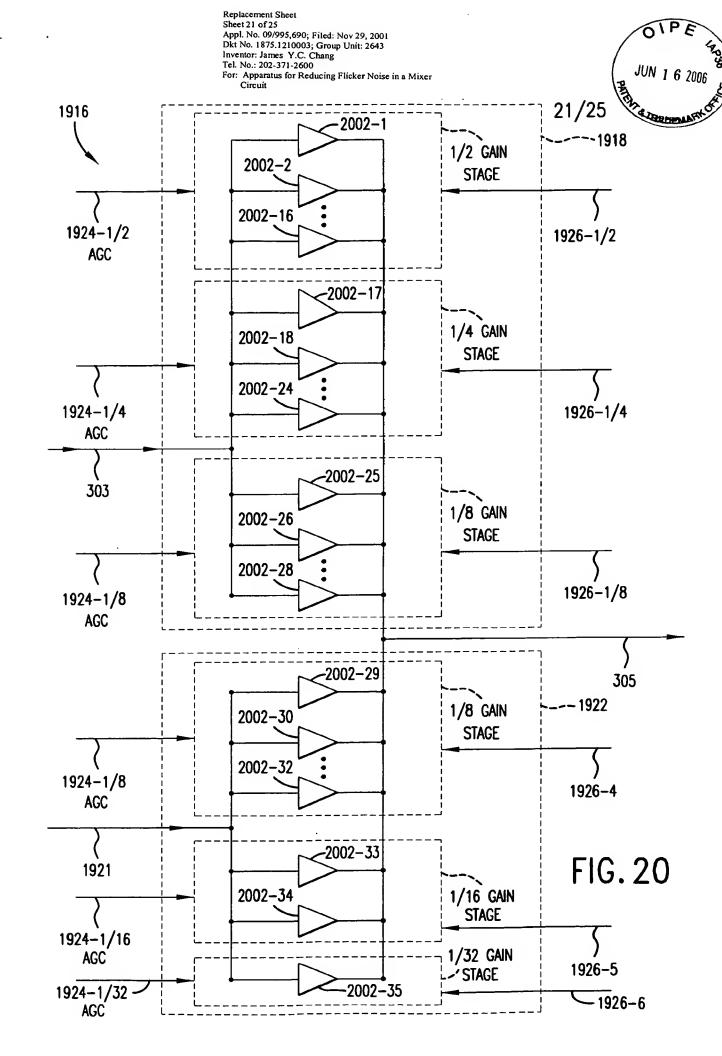


FIG. 18

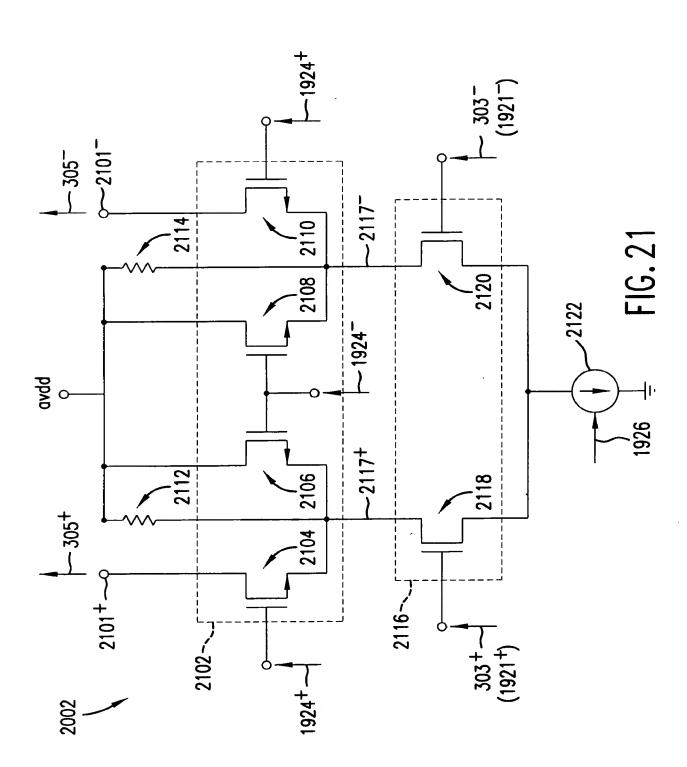
Replacement Sheet Sheet 20 of 25 Sneet 20 of 25
Appl. No. 09/995,690; Filed: Nov 29, 2001
Dkt No. 1875.1210003; Group Unit: 2643
Inventor: James Y.C. Chang
Tel. No.: 202-371-2600
For: Apparatus for Reducing Flicker Noise in a Mixer
Circuit JUN 1 6 2006 7 ovd_n 305 20/25 in_p out_p 1928 1927 1916 1/8a_p ibias 1/8a | ibias 1/16 ibias 1/4 ibias 1/8b ibias 1/32 HICH CAIN 1920 /8 _n d_8/ 1921 303 ibias2 ibias3 ibias6 ibias5 ibias 1 gi. 1929 BAS 1930 1908b icasc — Iref — dvss — 1906b avdd ~



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Inventor: James Y.C. Chang
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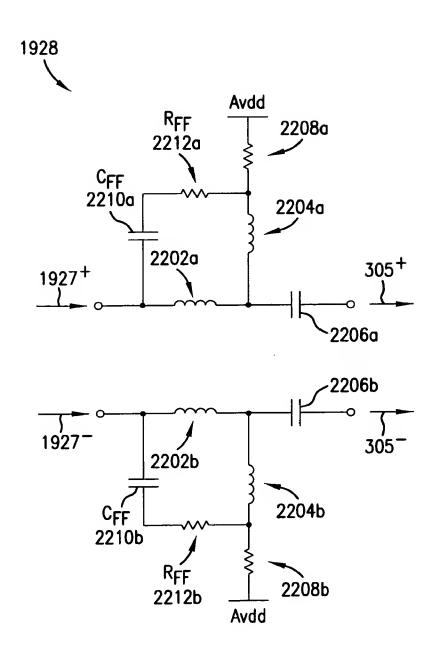
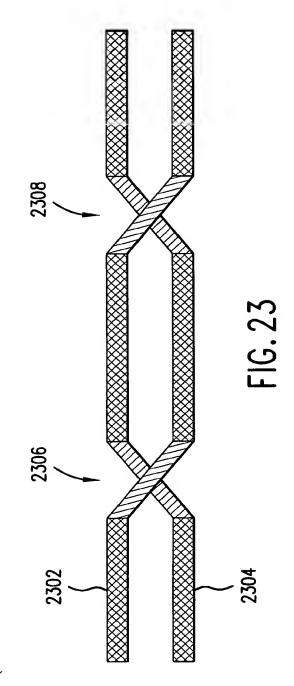


FIG. 22

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